ARJUNA JEE 2023

Mole Concept

DPP-01

1. An average adult has 5.2 L of blood. Volume of blood in m^3 is
(1) $5.2 \times 10^3\ m^3$ (2) $5.2 \times 10^{-3}\ m^3$
(3) $5.2 \times 10^{-6}\ m^3$ (4) $5.2 \times 10^{-2}\ m^3$

2. Solder is an alloy of tin and lead that is used in electronic circuits. It has melting point of 225°C. It is ..... °F.
(1) 498 °F (2) –437 °F
(3) 437 °F (4) 400 °F

3. The largest volume of the following group is that of
(1) 445 g of water at 4°C (d = 1g cm^{-3})
(2) 600 g of chloroform at 20°C (d = 15 g cm^{-3})
(3) 155 cm^3 of steel
(4) 0.50 L of milk

4. Of the following substance, the greatest density is that of
(1) 1000 g of water at 4°C
(2) 100.0 cm^3 of chloroform weighing 198.9 g
(3) 10.0 cm^3 piece of wood weighing 7.72 g
(4) an ethyl alcohol-water mixture of density 0.83 g cm^{-3}

5. Which one of the following is not a mixture?
(1) Brass (2) Air
(3) 22 carat gold (4) Water

6. Which one of the following represents smallest quantity?
(1) 1850 ng (2) 1.85×10^{-4} g
(3) 1.85×10^3 µ g (4) 1.85×10^{-6} kg

7. What is matter?
(1) Anything which has mass but does not occupies space
(2) Anything which has mass and occupies space
(3) Anything which neither has mass nor occupies space
(4) Anything which does not have mass but it occupies space

8. A measured temperature on Fahrenheit scale is 300°. What will this reading be on Celsius scale?
(1) 40°C (2) 94°C
(3) 148.8°C (4) 30°C

9. At what temperature are Celsius and Fahrenheit the same?
(1) –30 (2) 30
(3) –40 (4) 40

10. Convert 30 cm^3 to dm^3.
(1) 0.03 (2) 0.003
(3) 0.30 (4) 30

Answer Key

1. (2)
2. (3)
3. (4)
4. (2)
5. (4)
6. (1)
7. (2)
8. (3)
9. (3)
10. (1)

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